

Weekly Report

08/09/2015-08/16/2015

Research

We want to count the number of people in park and business center. There are three steps to achieve the task.

- Step1: get all the boundary of park and business center.
- Step2: calculate base stations which cover the range of each park or business center.
- Step3: count the number of people within the scope of selected base stations.

I mainly finished the work in first step. At first, we use the data from OpenStreetMap whose data contains the boundary of road, building, water and greenbelt marked by volunteers. However, there are only three parks in WenZhou after my program read all openstreetmap data. The data from OpenStreetMap is not comprehensive enough, we have to obtain(compute) the boundary from BaiduMap. We build a website contains a Baidu map instance[Fig.1]. We need to send foreground(red line) and background(blue line) color and the roughly range of greenbelt to background service program which will compute the boundary of this green area and send back to website. We can edit the boundary freely because the computed result is not always satisfying[Fig.2].

Plan for next week

- Review a paper.
- Add more functions to website and structure my js code reasonably.

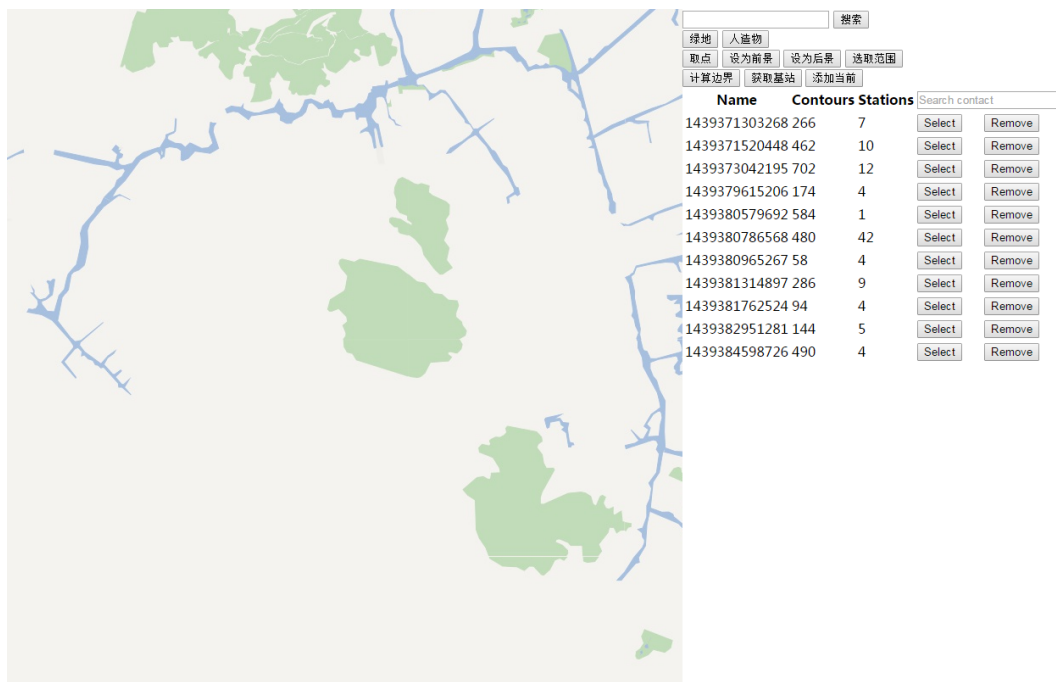


Figure 1: the interface of our website

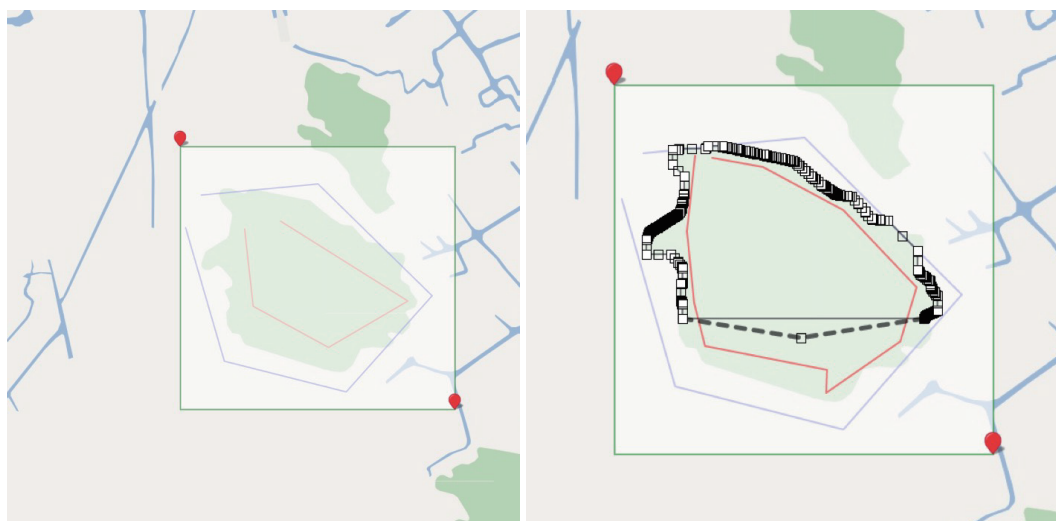


Figure 2: edit the boundary